

Combustion chamber discharging condensed mass (Technion)

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Rocket-type thrusters produce thrust by expelling a jet of gases through an exhaust nozzle. This invention is designed to attain much larger impulse and impact efficiency for the same amount of propellant and chemical energy by discharging condensed mass (solid mass, liquid gel or powder) through an exhaust tube instead of combustion gases. This augmentation of the overall impulse results in better utilization of propellant energy providing increased efficiency and better performance for space vehicle and missile propulsion and control. This is ideal for applications that require a large impulse from a relatively small amount of propellant.

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